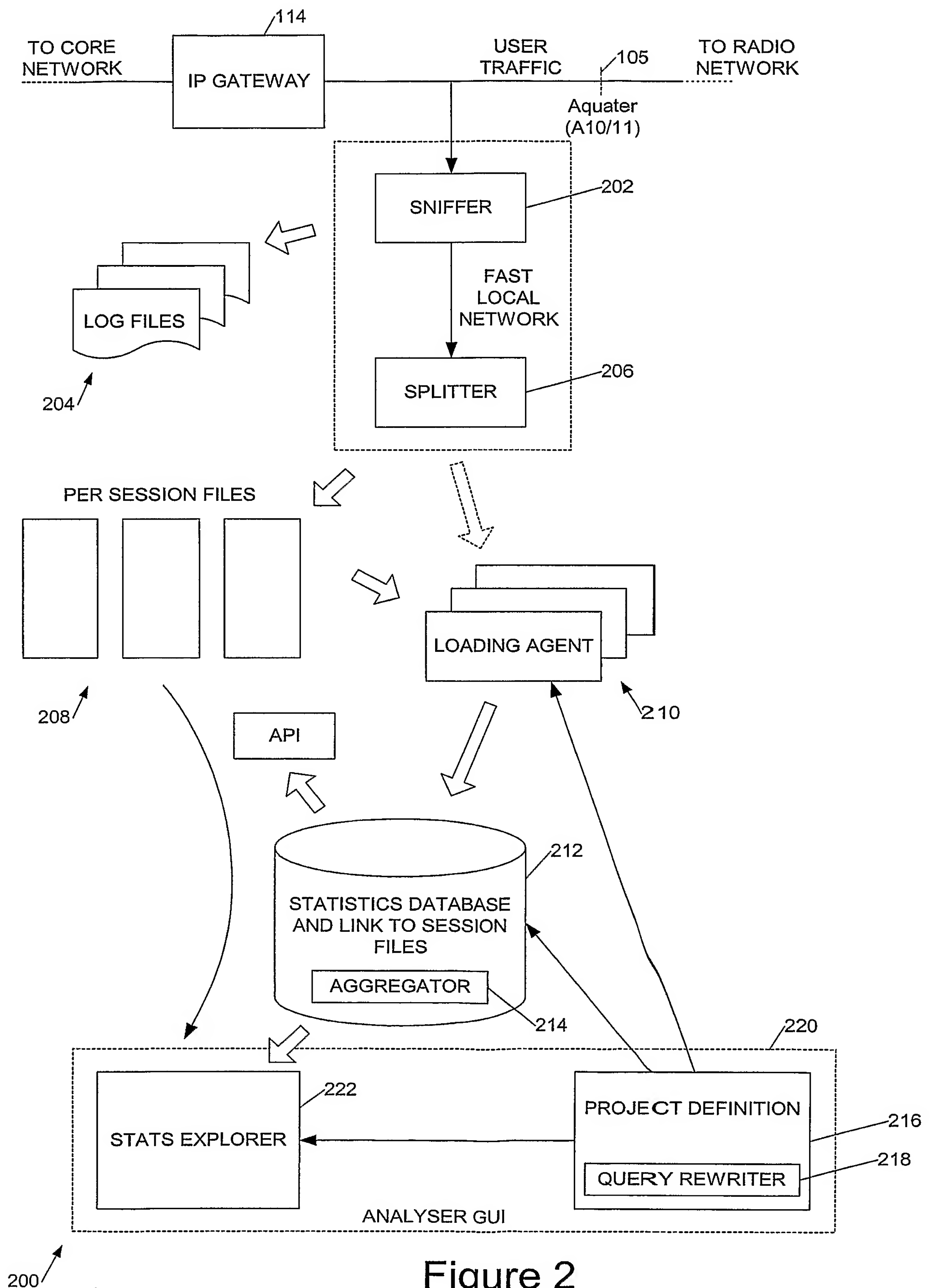


Figure 1

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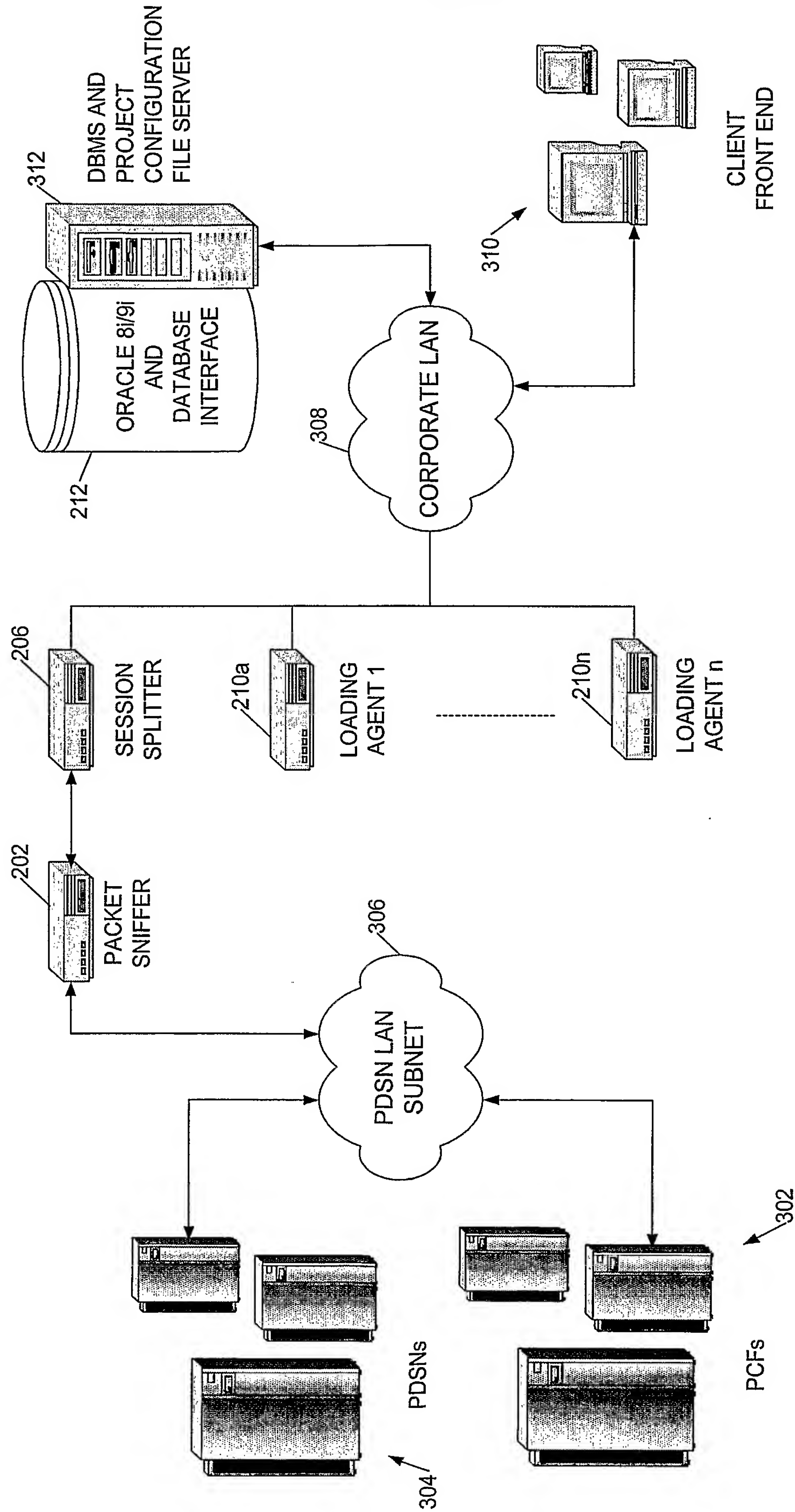


Figure 3

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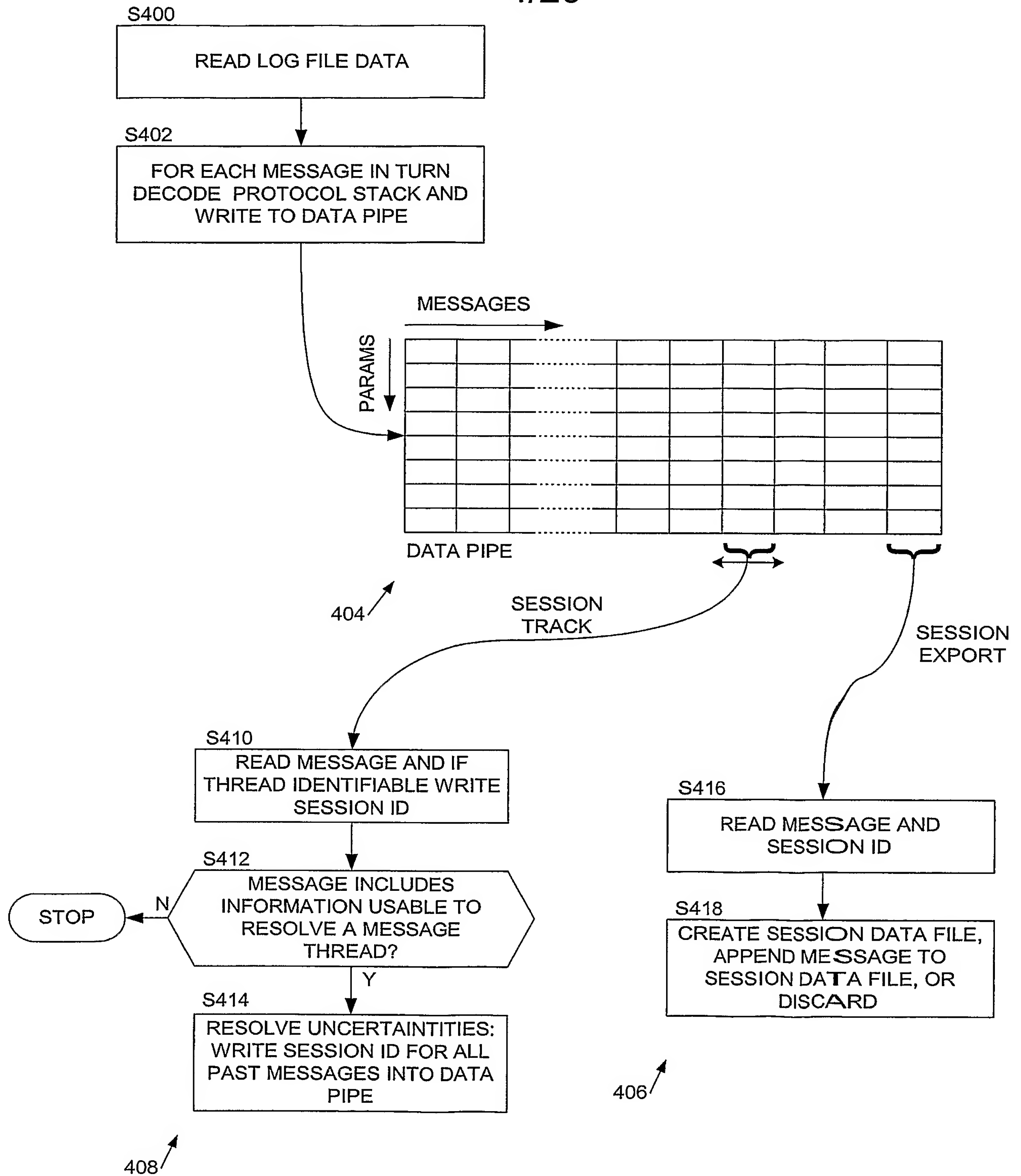


Figure 4

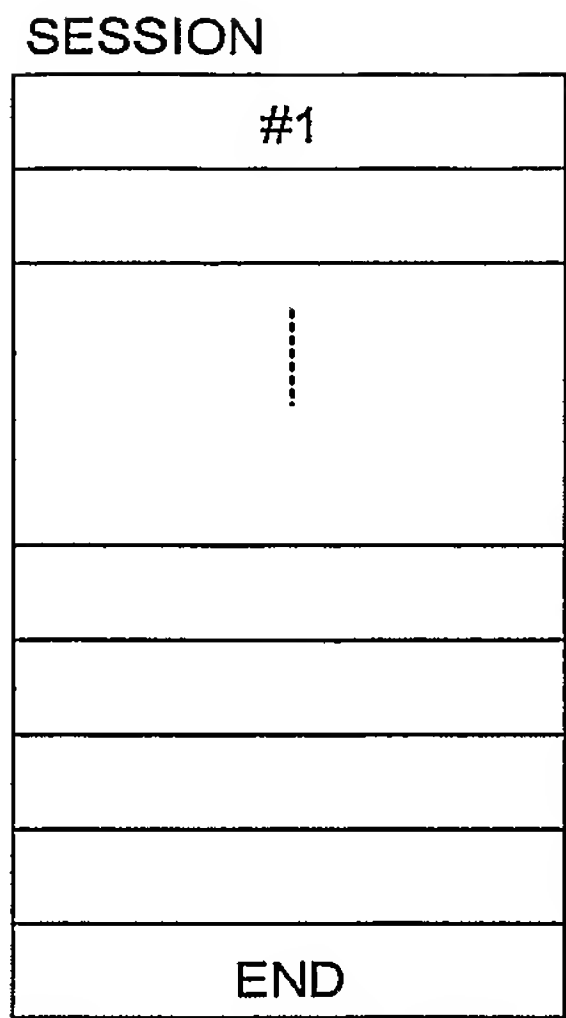


Figure 5a

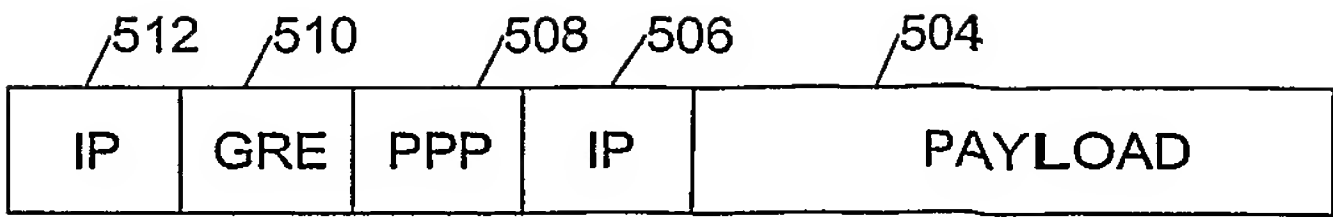


Figure 5b

DIM 1	DIM 2	STAT 1	STAT 2	STAT N
1	1			
1	2			
1	3			
2	1			
2	2			
2	3			

Figure 5e

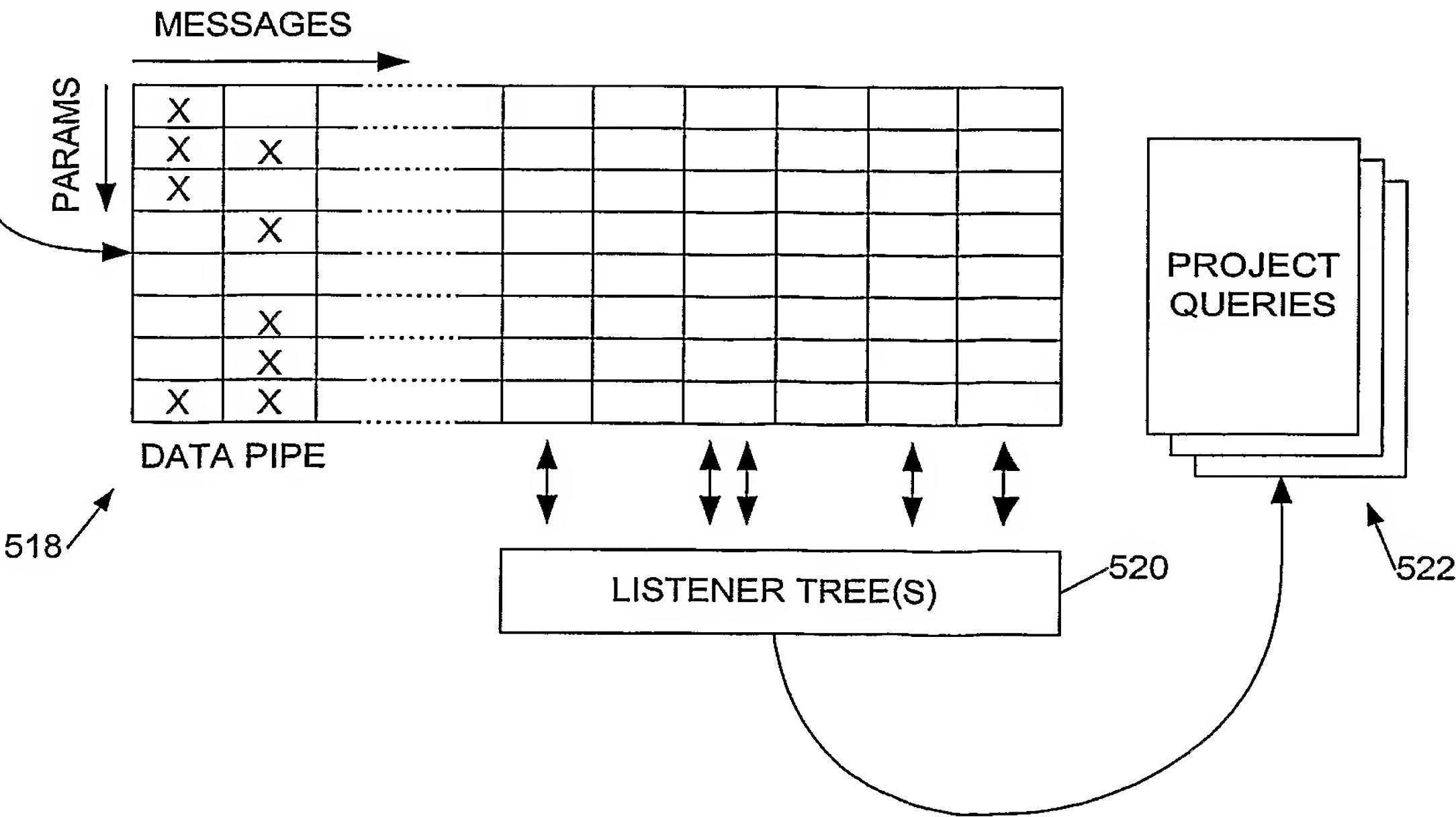
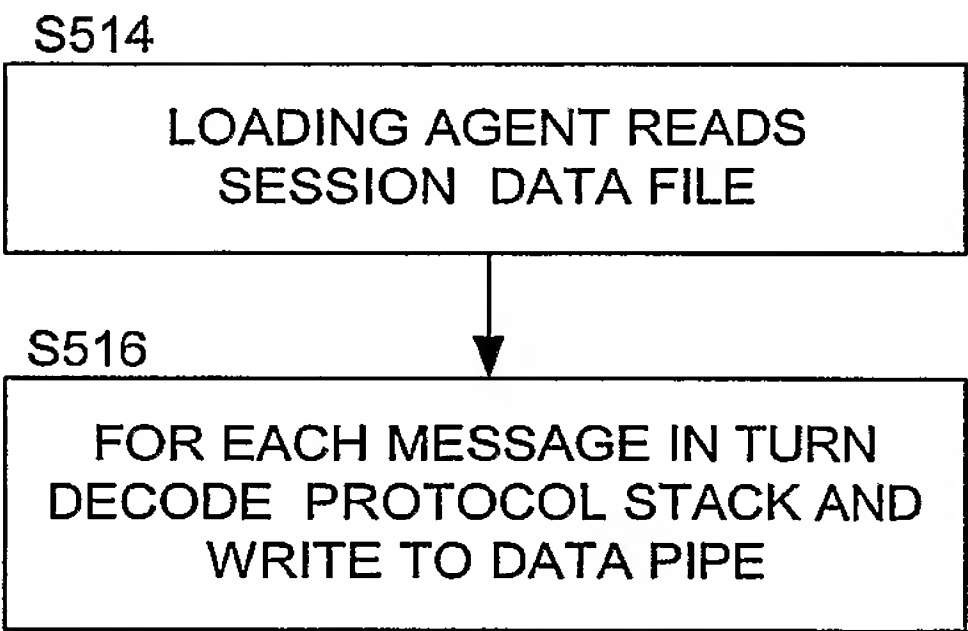


Figure 5c

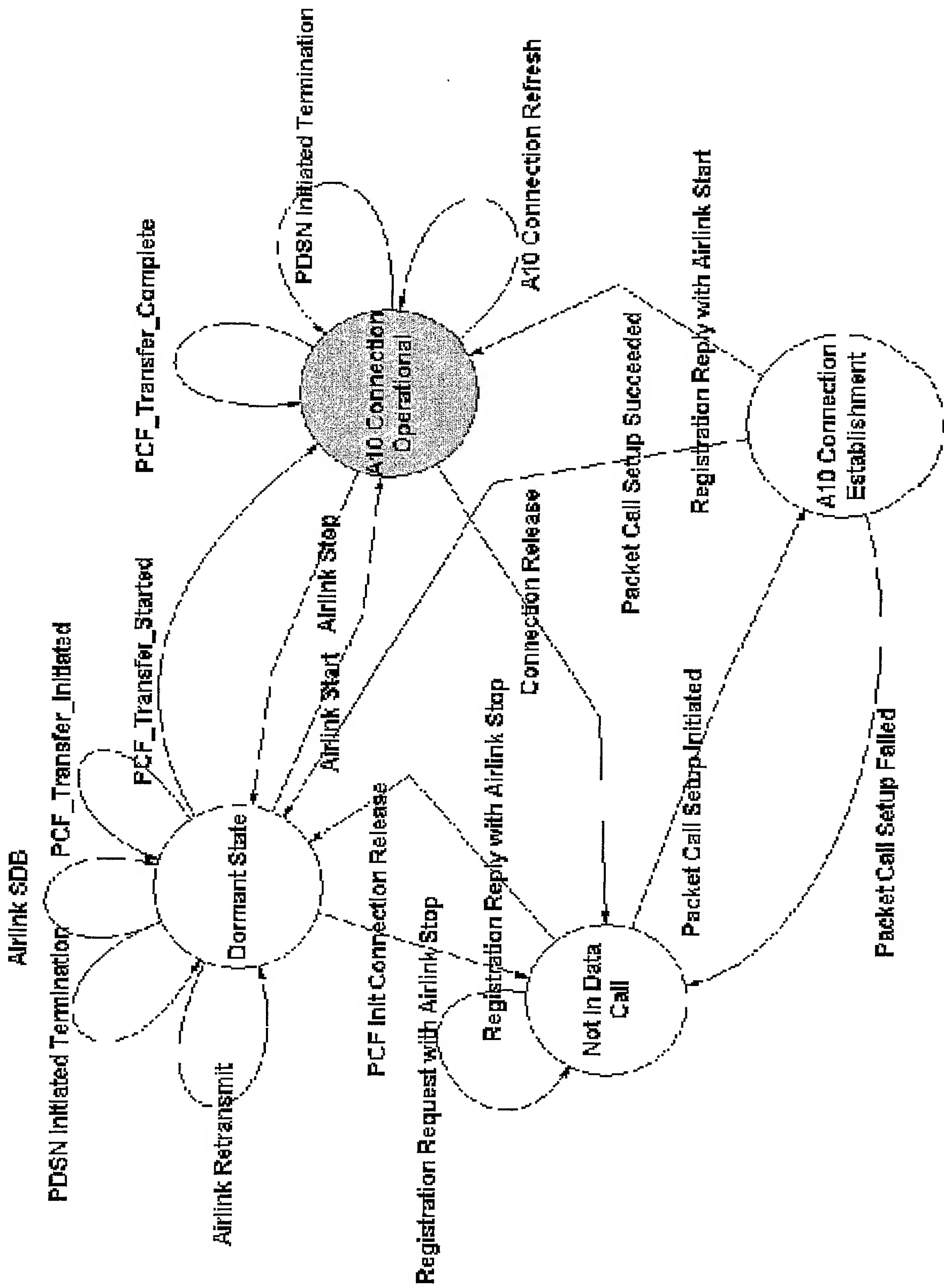


Figure 5d

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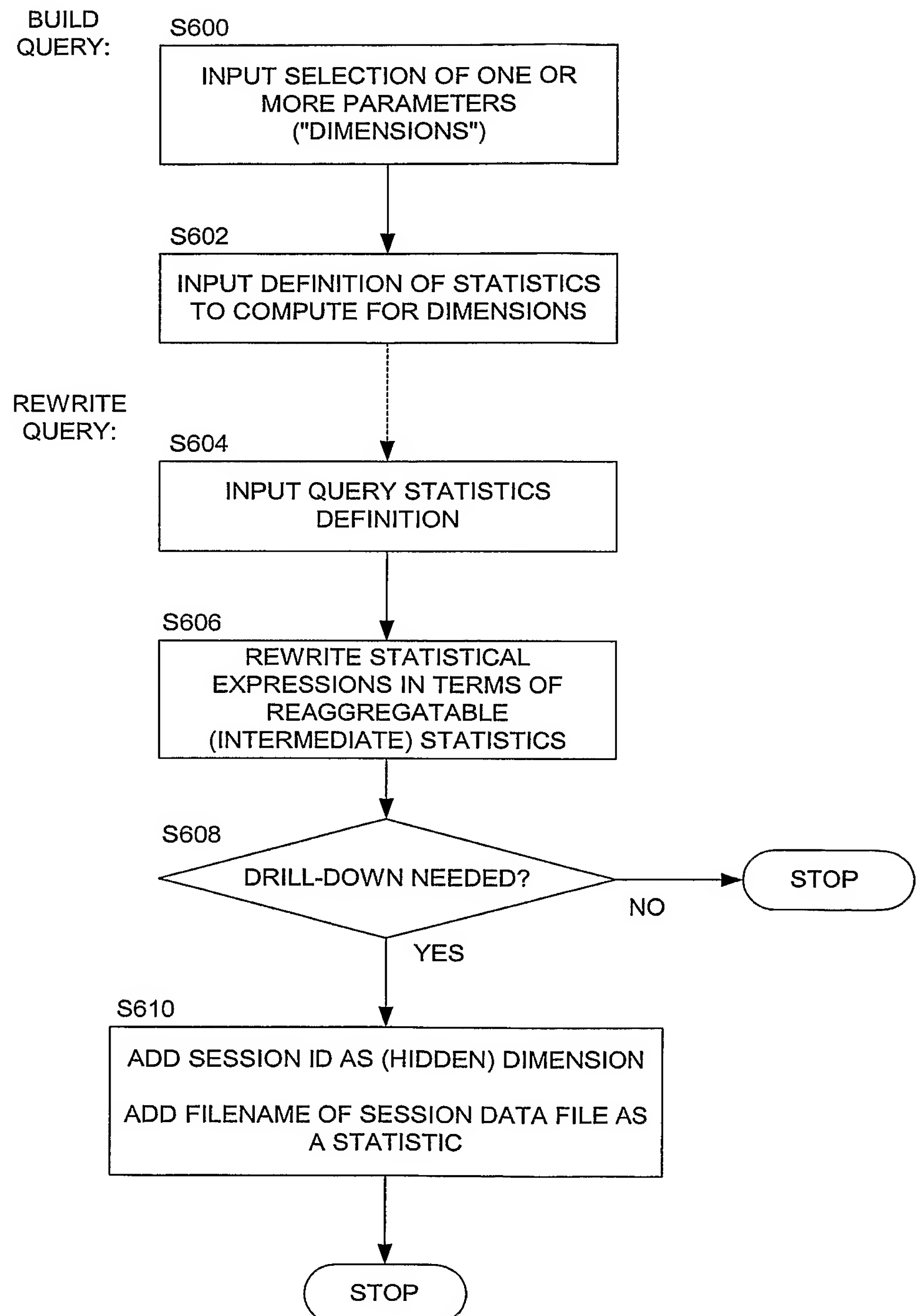


Figure 6

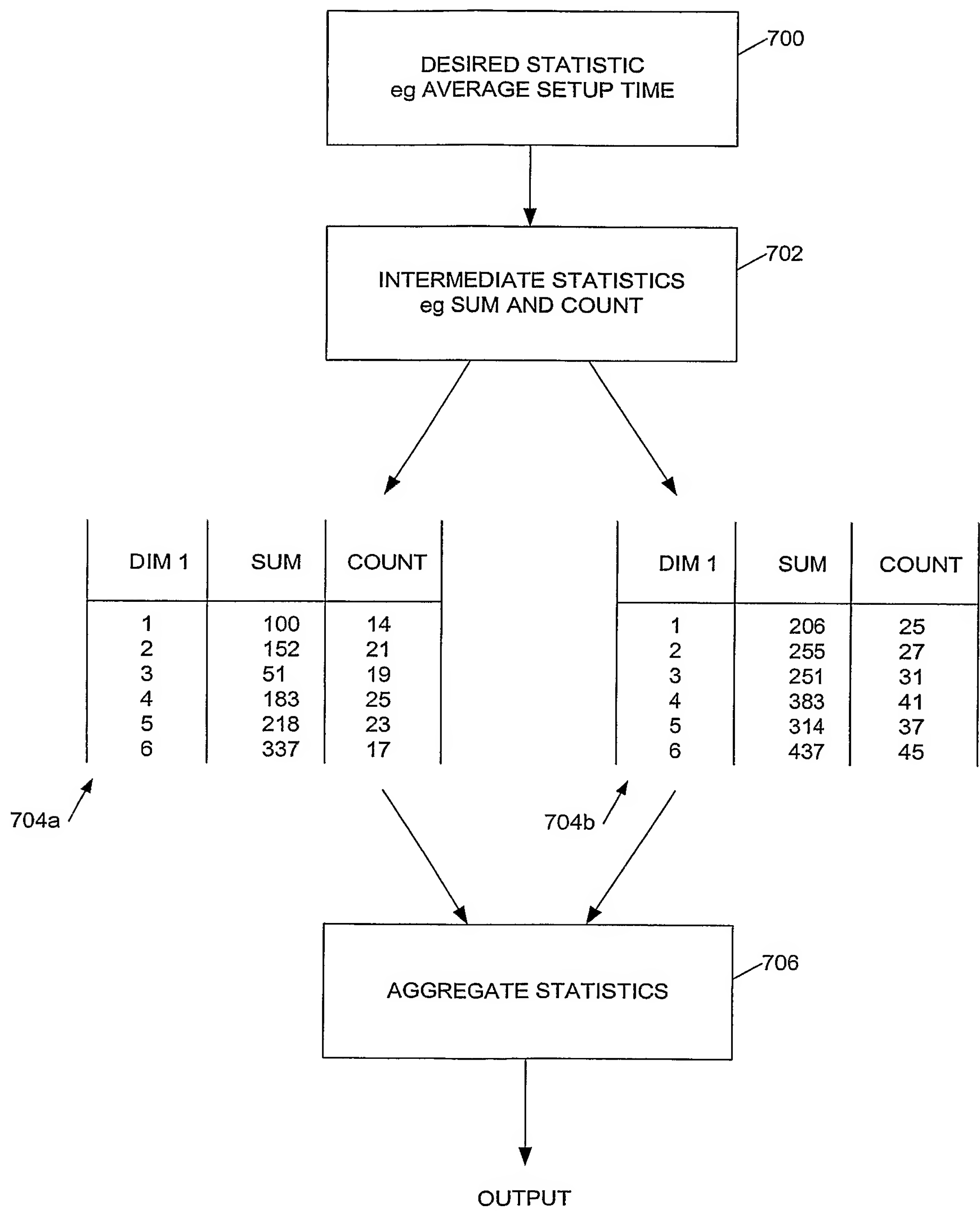


Figure 7

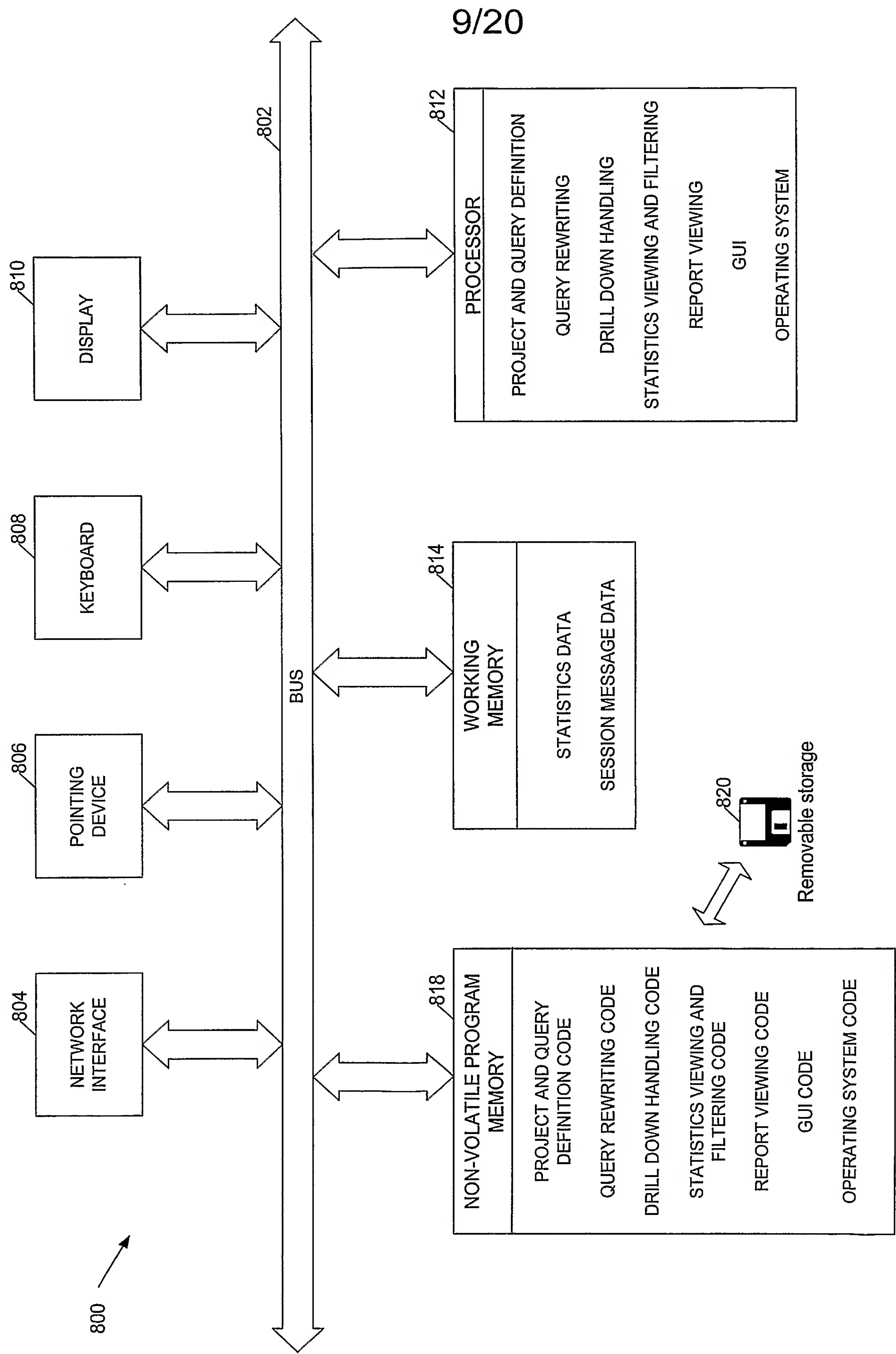


Figure 8

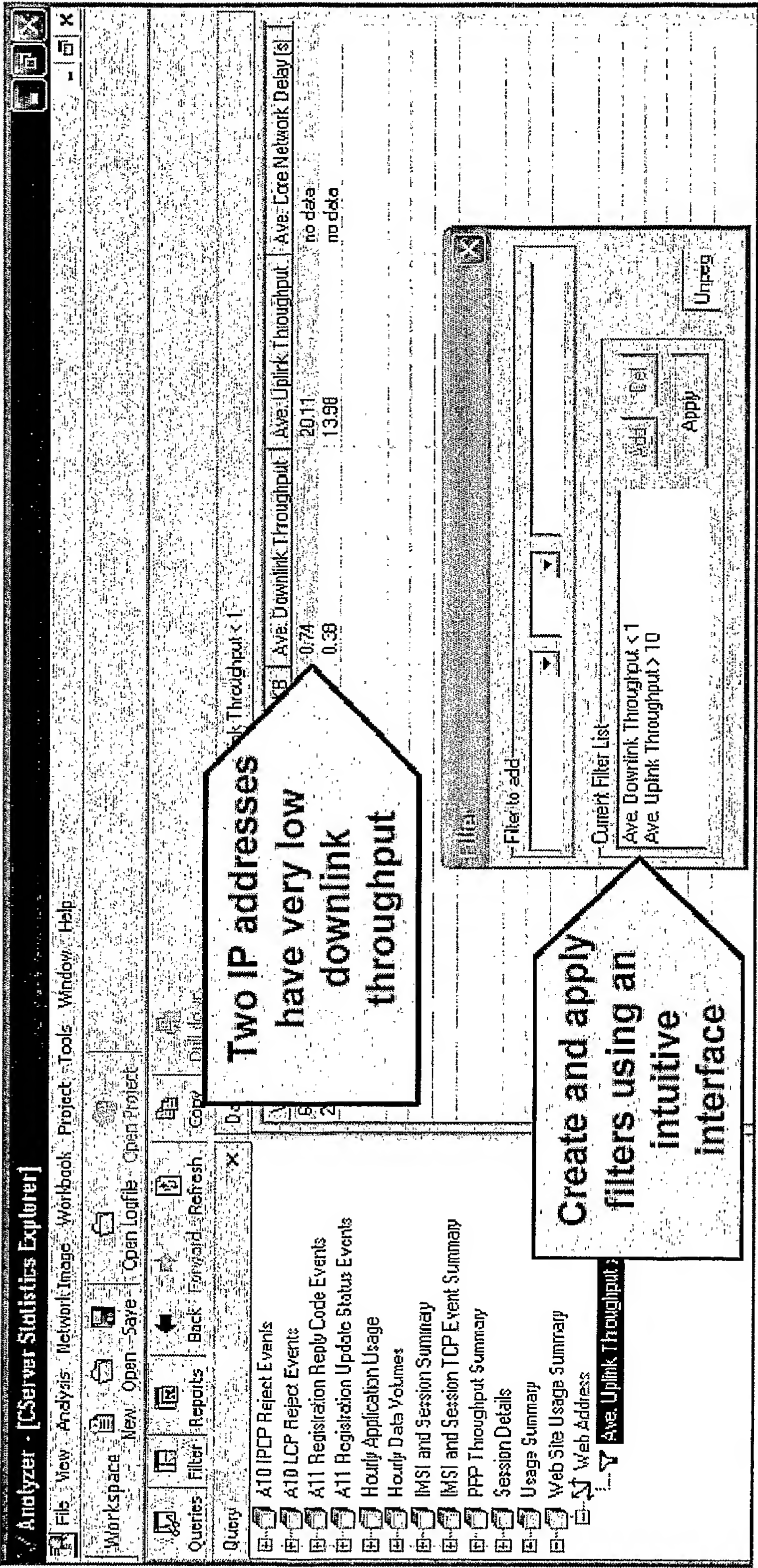


Figure 9

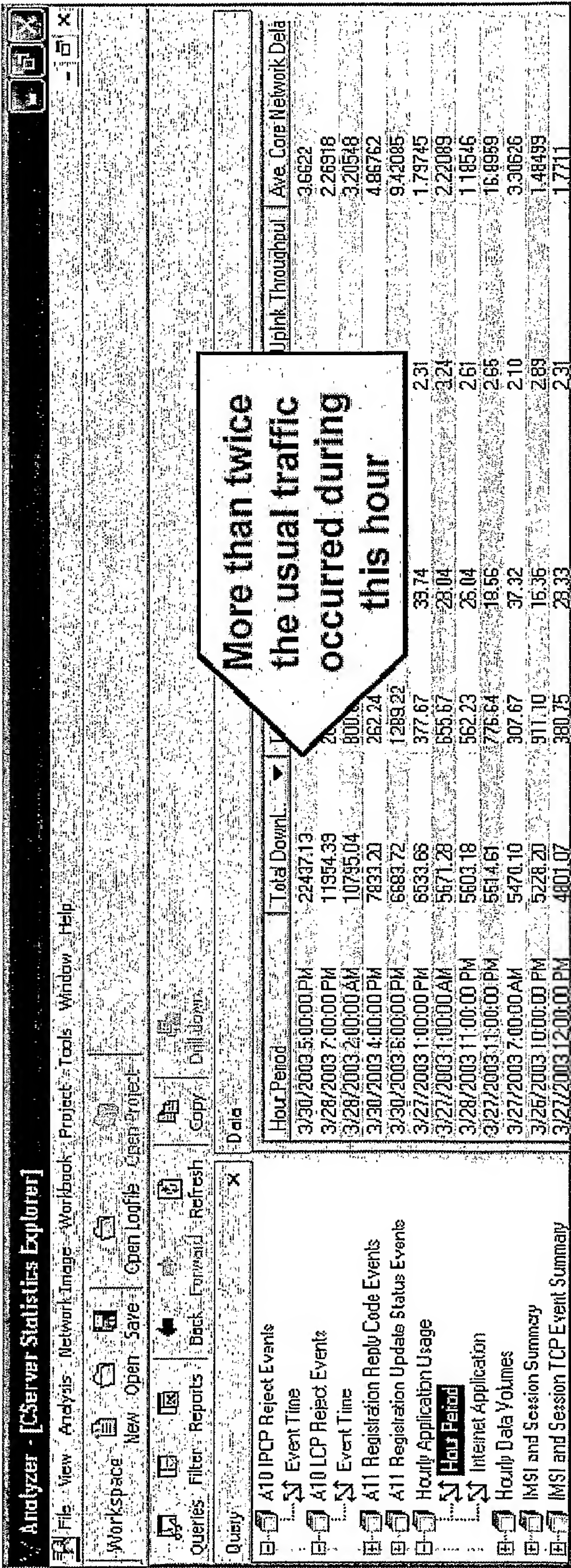


Figure 10

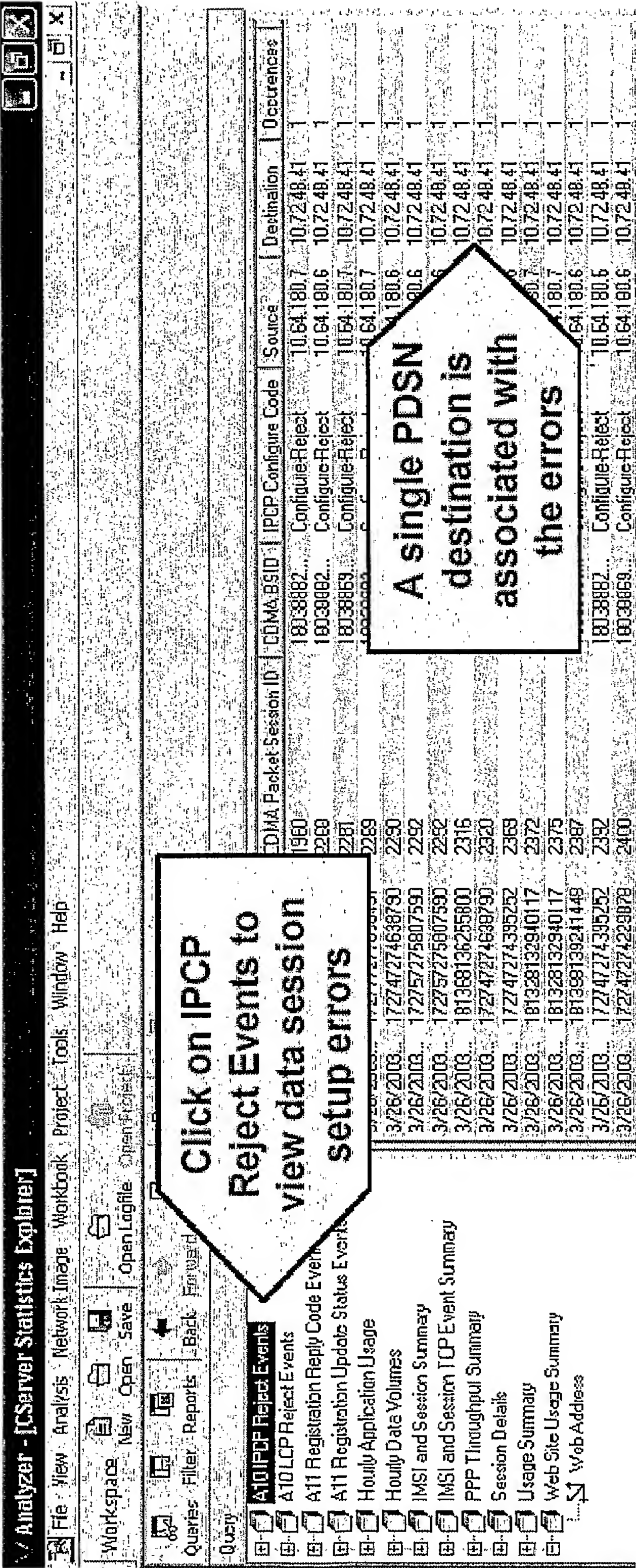


Figure 11

Time	Origination Time	Packet Data Setup Time	PPP Setup Time	SCH Assignment Time	Total Setup Time
1:31:02 PM	1101	127	1097	4001	10179
1:35:23 PM	2102	141	1213	398	6359
2:02:52 PM	292	112	980	1121	10713
3:13:11 PM	5102	202	2003	906	8213

Figure 12

Metric	Goal	Actual
Average Eclo	-14db or better	-17.21
Average Forward FER	2% or less	1.49
Average Reverse FER	2% or less	2.10
% Access Failure	0%	10.71%
% Successful Call Origination	>=90% for Mobile Originating or Mobile Terminating Calls	82.14%
% Dropped Calls (of calls that originated successfully)	2% or less	7.14%

Figure 13














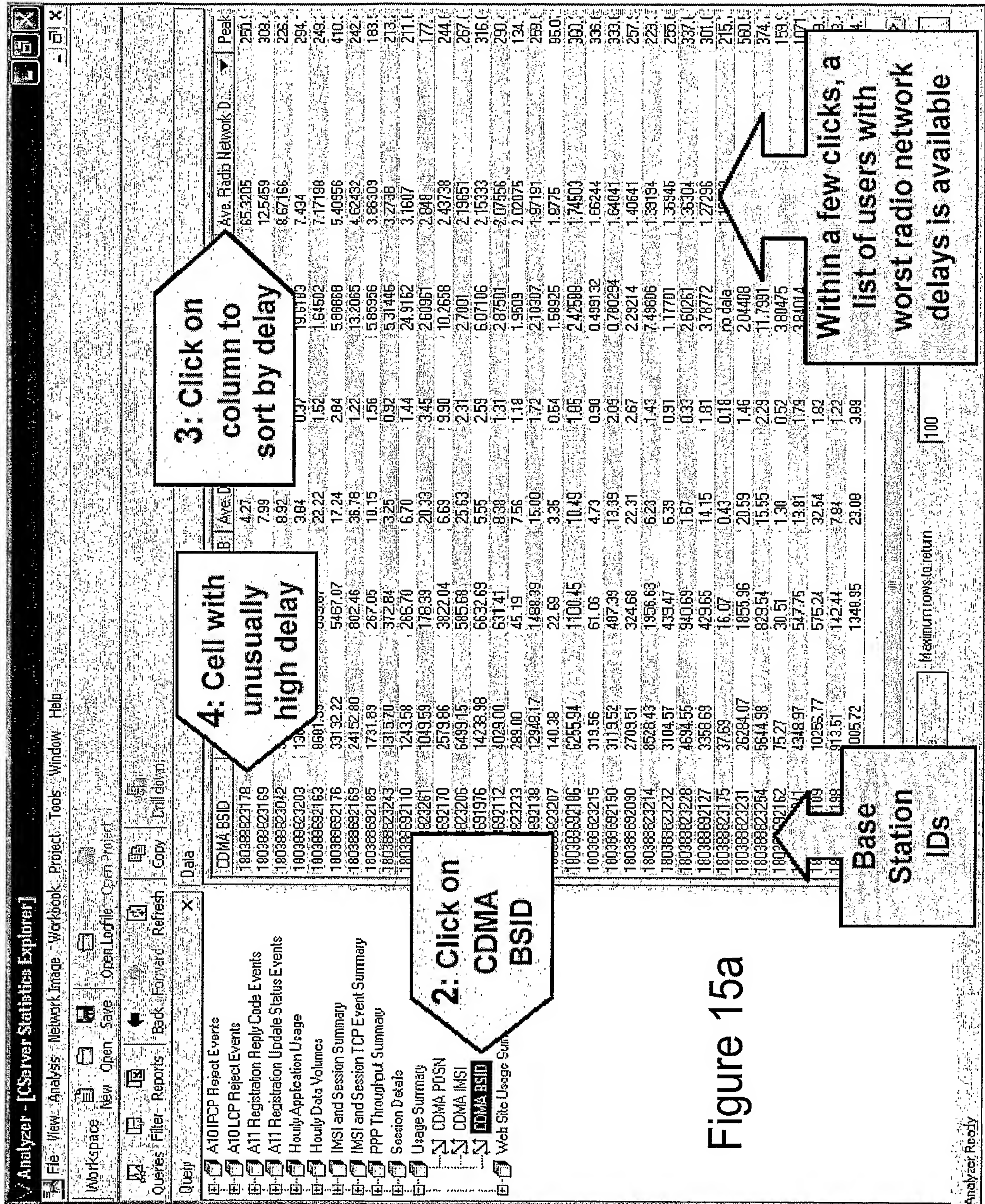
		# TCP Retransmissions	# TCP Aborts	# TCP Transmission Timeouts	# TCP Packets Lost
	Total (27565 Samples)	2218	98	240	2040
	 8473724068 (124)	9	11	1	8
	 7149264650 (256)	27	8	7	23
	 8474775346 (13)	0	7	0	0
	 6306602110 (70)	3	6	7	2
	 7208404403 (536)	83	6	6	81
	 2039813997 (269)	99	5	3	96

Figure 14

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CDM...	CDMA IMSI	CDMA BSID	Application	Ave. Core Network Delay (s)	Ave. Radio Network D...	Occurenc
3192	172747274104262	180388823178	www-http	44.2309	138.074	2665
3889	172747274104262	180388823178	www-http	1.84581	36.431	4711
2266	172747274104262	180388823178	www-http	0.042	31.4985	2044
2526	172747274104262	180388823206	www-http	1.81822	2.81666	4669
2296	172747274104262	180388823178	www-http	1.36825	2.30018	3945
2760	172747274104262	180388823206	www-http	2.17648	1.86458	3224
2291	172747274104262	180388823178	pop3	no data	no data	119

Figure 15d

MIP Registration Reply Code			IMSI	User ID
Total (42 Samples)	Error code from the Foreign Agent - unknown challenge		5302093549	sbostrain01@sp
9/11/2002 3:01:17 PM (2)	Error code from the Foreign Agent - home agent port unreachable (ICMP error received)		8474452581	snelson88@spr
9/11/2002 2:58:55 PM (2)	Error code from the Foreign Agent - mobile node failed authentication		8474521587	mark2cool@spr
9/11/2002 2:59:38 PM (4)	Error code from the Foreign Agent - unknown challenge		8475309339	riacobs66@spr
9/11/2002 3:00:43 PM (2)	Error code from the Foreign Agent - mobile node failed authentication		3123990163	5D42889D@hc
9/11/2002 3:00:42 PM (2)	Error code from the Foreign Agent - unknown challenge		3123990163	5D42889D@hc
9/11/2002 2:59:59 PM (2)	Error code from the Foreign Agent - stale challenge		3123993627	rdelker01@spr

Figure 16

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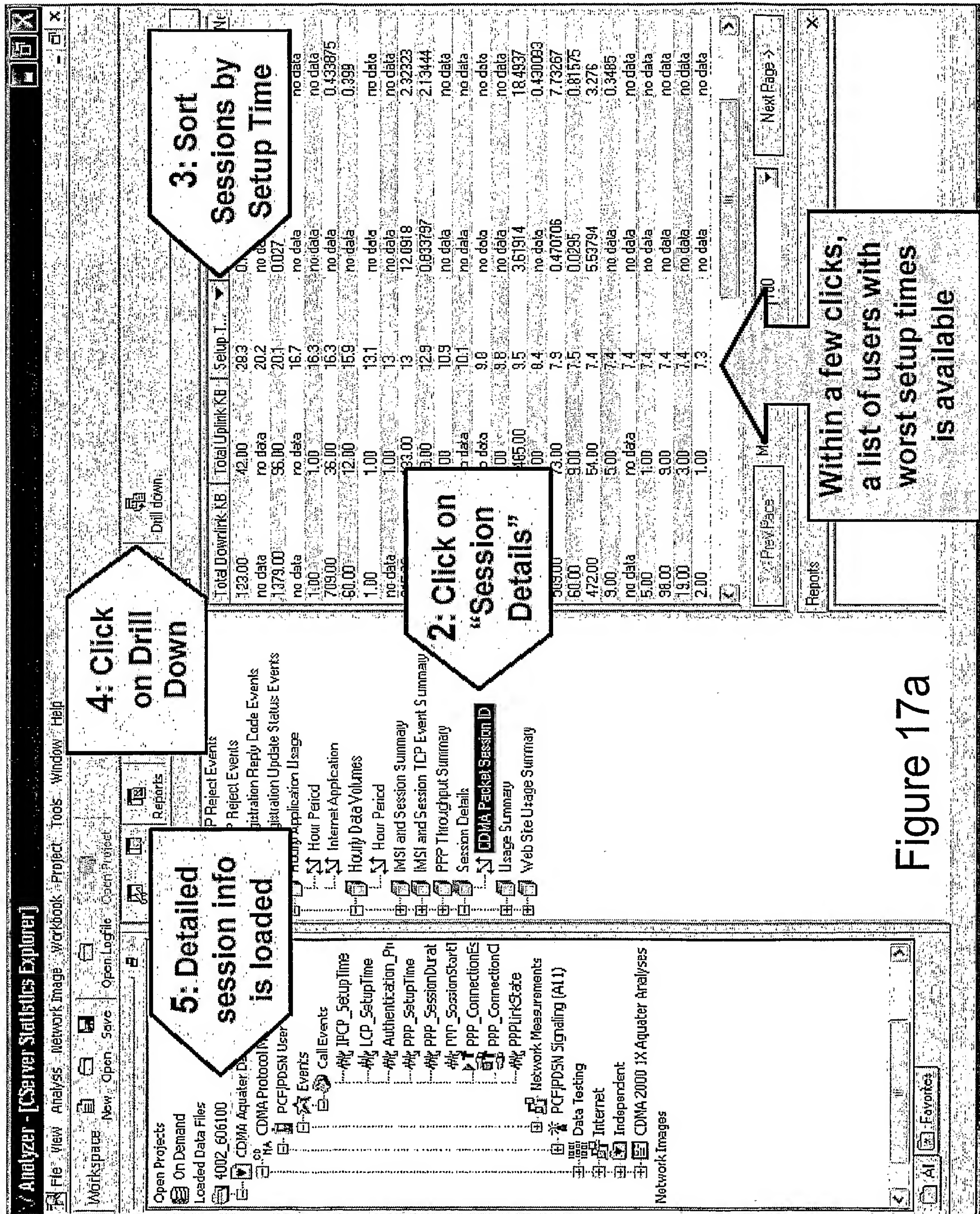
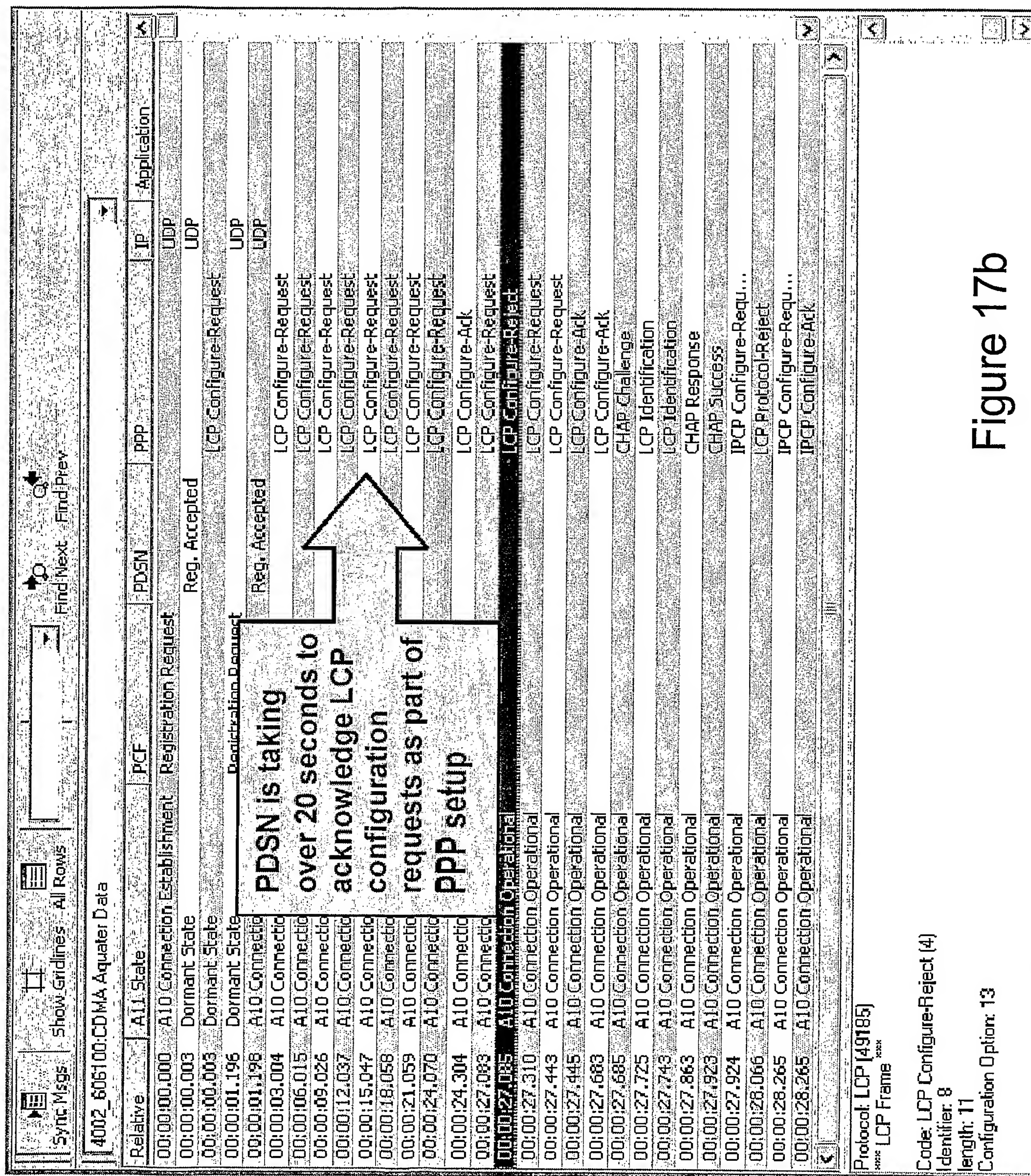


Figure 17a



Msg No.	Absolute	Relative	Offset	Message	RRC Cause	Layer 3	Events
000552	12:28:57.003	00:01:41.008	000000	BCCH-BCCH SyncInfoType1			
000553	12:28:57.008	00:01:41.008	000000	BCCH-BCCH SyncInfoType7			
000569	12:29:00.152	00:01:44.152	003144	UL-CCCH RRCConnectionRequest	RRC_registration		
000583	12:29:03.267	00:01:47.267	003115	UL-CCCH RRCConnectionRequest	RRC_registration		
000687	12:29:03.698	00:01:47.698	000431	DL-CCCH RRCConnectionSetup			
000688	12:29:04.318	00:01:48.318	000620	UL-DCCH RRCConnectionSetupComplete			
000693	12:29:04.679	00:01:48.679	000361	UL-DCCH InitialDirectTransfer	GPRS MM Attach request		
000694	12:29:04.679	00:01:48.679	000000		GPRS MM Attach request		
000695	12:29:04.959	00:01:48.959	000280	DL-DCCH DownlinkDirectTransfer	GPRS MM Attach accept		
000696	12:29:04.959	00:01:48.959	000000		GPRS MM Attach accept		
000697	12:29:04.959	00:01:48.959	000010	UL-DCCH UplinkDirectTransfer	GPRS MM Attach complete		GPRS Attach Successful
000698	12:29:04.959	00:01:48.959	000000		GPRS MM Attach complete		
000712	12:29:07.874	00:01:51.874	002905	UL-DCCH UplinkDirectTransfer	GPRS SM Activate PDP Context request		
000713	12:29:07.874	00:01:51.874	000000		GPRS SM Activate PDP Context request		
000714	12:29:08.524	00:01:52.524	000550	DL-DCCH RadioBearerSetup			
000715	12:29:08.565	00:01:52.565	000041	UL-DCCH RadioBearerSetupComplete			
000720	12:29:08.835	00:01:52.835	000270	DL-DCCH MeasurementControl			
000721	12:29:09.055	00:01:53.055	000220	DL-DCCH DownlinkDirectTransfer	GPRS SM Activate PDP Context accept		GPRS PDP Context Activation Successful
000722	12:29:09.055	00:01:53.055	000000		GPRS SM Activate PDP Context accept		
000726	12:29:09.246	00:01:53.246	000191	UL-DCCH MeasurementReport			
000731	12:29:19.377	00:01:54.377	001131	DL-DCCH RadioBearerReconfiguration			
000741	12:29:11.779	00:01:55.779	001402	UL-DCCH RadioBearerReconfigurationComplete			
000749	12:29:14.233	00:01:58.233	002454	UL-DCCH MeasurementReport			
000769	12:29:19.010	00:02:03.010	004777	UL-DCCH MeasurementReport			
000800	12:29:28.013	00:02:12.013	000003	UL-DCCH MeasurementReport			
000824	12:29:34.061	00:02:18.061	000048	UL-DCCH MeasurementReport			
000845	12:29:40.210	00:02:24.210	006149	UL-DCCH MeasurementReport			
000859	12:29:42.834	00:02:26.834	002624	UL-DCCH UplinkDirectTransfer	GPRS SM Deactivate PDP Context request		
000860	12:29:42.834	00:02:26.834	000000		GPRS SM Deactivate PDP Context request		
000861	12:29:43.264	00:02:27.264	000420	DL-DCCH DownlinkDirectTransfer	GPRS SM Deactivate PDP Context accept		GPRS PDP Context Deactivation Successful
000862	12:29:43.264	00:02:27.264	000000		GPRS SM Deactivate PDP Context accept		
000864	12:29:43.284	00:02:27.284	000020	UL-DCCH UplinkDirectTransfer	GPRS MM Detach request		GPRS Detach Successful
000866	12:29:43.284	00:02:27.284	000000		GPRS MM Detach request		GPRS Detach Successful
000867	12:29:43.465	00:02:27.465	000201	DL-DCCH RadioBearerRelease			
000872	12:29:43.675	00:02:27.675	000190	DL-DCCH DownlinkDirectTransfer			
000873	12:29:43.675	00:02:27.675	000000		GPRS MM Detach accept		
000878	12:29:44.937	00:02:28.937	001262	UL-DCCH RadioBearerReleaseComplete			
000879	12:29:45.227	00:02:29.227	000290	DL-DCCH RRCConnectionRelease			
000880	12:29:45.237	00:02:29.237	000010	UL-DCCH RRCConnectionReleaseComplete			
000285	12:28:04.873	GPRS MM ~ DETACH REQUEST UL-DCCH UplinkDirect Transfer					

UL-DCCH Message
- message: uplinkDirectTransfer
 cn_DomainIdentity: 0: RRC_psa_domain
GPRS Protocol discriminator: GPRS Mobility Management Msg Type: Detach request Force to standby not indicated Power Off: normal detach, Detach Type: (MS>net: GPRS detach) or (net>MS: reattach required)
Mobile Identity[0]: 244, [1]: 24, [2]: 144, [3]: 75, [4]: 56
ET: Radio Cause, P-TMSI signature 2: 11285539
GPRS MM ~ DETACH REQUEST

Figure 17c